| ndex | . . | |
|----------|------------|--|
| | | |
| | | |

| Application | /Control No. |
|-------------|--------------|
|-------------|--------------|

10/788,737

Examiner

Son T. Nguyen

Applicant(s)/Patent under Reexamination

LIVESAY ET AL

Art Unit

3643

| ~ | Rejected Allowed |
|----------|---------------------|
| , | Poinstad |

| _ | (Through numeral) Cancelled |
|---|--------------------------------|
| ÷ | Restricted |

| N | Non-Elected |
|---|--------------|
| 1 | Interference |

| A | Appeal | | | | | | | | |
|---|----------|--|--|--|--|--|--|--|--|
| 0 | Objected | | | | | | | | |

| Claim | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|------------|--|----------|----------|--------------|------------|--------------|--------------|----------------|----------|----------|----|------------------------|----------|----------|----------|--------|----------|----------|---|----------|-----|----------|---------------|--------------|----------|-----------------|-----------|----------|-----------|
| The color of the | Cla | Claim Date | | | | С | Claim Date | | | | | | | |] | Cli | aim | Date | | | | | | | | | | | | | |
| 2 | | | 7/12/05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 1 | | | | | | | | | \neg | | 51 | П | | \dashv | 1 | _ | | | 1 | | 101 | | \top | 1- | | П | | ヿ | _ |
| 4 | | 2 | Г | | | | | | T . | | \neg | | | | | | T | 1 | | | 1 | | | \neg | _ | 1 | ऻ | П | \Box | ヿ | \neg |
| 5 | | 3 | | | | | | П | | П | | | 53 | | | | | 1 | | \Box | 1 | | 103 | | | T | Г | | | ╛ | _ |
| 6 | | 4 | | | | | | | | | \neg | | | | | | \top | | | | 1 | | | | \top | ╁ | | П | | ヿ | |
| 10 | | 5 | | | | | | П | | П | | | 55 | | | | | | | | 7 | | 105 | | | | | \Box | П | 丁 | _ |
| S | | 6 | | | | | | | | | | | | | | T | | | | | 7 | | 106 | | $\neg \vdash$ | | | П | | \neg | |
| 9 | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | \neg | |
| 10 | | | | | | | | | | | | | | | | | | | | |] | | | | | | | | | | |
| 11 | | | L | | | | | | L | | | | | | | · · | | | | | | | | | T | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | \Box | |
| 13 | | | L | | | $oxed{oxed}$ | L | | L | Ш | | L | | | | \perp | | | | |] | | | | | | | | | | |
| 1 4 | <u></u> | | <u> </u> | | | | | | $oxed{oxed}$ | Ш | | | | | | _[| | | Ш | | _ | | | | | | | | | \Box | |
| 15 | <u> </u> | | L. | | | | Ш | <u> </u> | <u> </u> | Щ | _ | <u> </u> | | Ш | | | | | Ш | Щ. | 1 | <u></u> | | | | $oxed{\Box}$ | L | Ш | \Box | \bot | |
| \$ 16 = | | | _ | | | | _ | _ | 乚 | Щ | _ | | | Ш | | \perp | _ | Щ_ | | | 1 | | | | | | | | | _ | |
| 4 17 = 68 117 118 118 118 118 118 119 120 120 121 120 121 122 122 122 122 122 122 121 121 122 122 122 122 122 122 122 123 124 124 124 124 124 124 124 124 125 125 126 127 127 127 127 127 127 127 127 127 127 127 127 127 127 127 127 127 128 128 128 128 128 128 128 128 128 128 129 129 130 130 131 131 131 131 131 131 132 133 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L</td> <td>Щ</td> <td>_</td> <td><u> </u></td> <td></td> <td></td> <td>\sqcup</td> <td>4</td> <td>_ _</td> <td></td> <td>Ш</td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td><u> </u></td> <td></td> <td>_</td> <td></td> <td></td> | | | - | | | | | | L | Щ | _ | <u> </u> | | | \sqcup | 4 | _ _ | | Ш | | 4 | | | | | 1 | <u> </u> | | _ | | |
| 68 118 118 119 118 119 118 119 118 119 120 120 121 120 121 122 122 122 122 122 122 122 122 122 122 122 122 122 122 122 122 122 122 123 123 123 123 123 123 124 125 125 125 125 125 125 125 125 125 125 125 126 127 128 127 128 127 128 129 133 133 133 13 | | | _ | | | | _ | <u> </u> | _ | Ш | _ | <u> </u> | | Ш | | 4 | | _ | \Box | _ _ | 4 | | | | | 1 | | Ш | \dashv | _ | |
| 69 70 119 120 121 120 121 120 121 121 122 121 122 123 123 123 123 123 123 123 123 123 123 124 125 125 125 125 125 125 126 127 127 126 127 127 128 129 129 129 129 130 130 130 130 130 131 131 131 131 132 133 | | | _ | | | | | | <u> </u> | | _ | | | Ш | _ | 4 | _ | _ | Ш | \perp | 4 | | | | | 1 | | Ш | \dashv | \dashv | |
| 120 | | | | | | | _ | _ | | | | | | Ш | | _ | | Щ | ļ.,, | \perp | 4 | <u> </u> | | | | 4_ | <u> </u> | Ш | \dashv | 4 | |
| 21 1 121 121 121 122 122 123 123 123 123 124 124 124 124 124 124 124 124 125 125 126 126 126 126 126 126 126 127 127 127 127 127 127 127 127 128 129 129 129 129 129 130 130 130 130 130 130 130 131 131 131 131 131 131 131 132 132 132 132 132 133 | 6 | | = | | | | | - | L. | | _ | - | | Ш | \Box | 4 | \bot | 4 | Ш | | 4 | | | | | 4- | <u> </u> | | _ | 4 | _ |
| 22 122 123 124 123 124 123 124 123 124 124 125 126 126 125 126 125 126 127 126 127 128 127 128 129 128 129 128 129 129 129 129 129 130 131 130 131 131 132 133 134 134 134 134 134 134 135 136 137 137 137 137 137 137 137 137 138 139 139 | | | _ | _ | | _ | _ | <u> </u> | L | | _ | <u> </u> | | Н | _ | 4 | _ | - | | | 4 | <u> </u> | | | _ _ | 4 | <u> </u> | | \dashv | 4 | \dashv |
| 23 123 123 124 124 124 125 125 126 125 125 126 125 126 127 126 127 128 127 128 129 129 129 129 130 130 130 130 130 130 130 130 131 130 130 133 13 | | | | | | _ | _ | ├— | \vdash | | 4 | - | | \vdash | _ | | _ | 4 | _ | | 4 | <u> </u> | | _ | _ | 4 | ļ | | | \dashv | _ |
| 24 124 124 124 125 125 126 125 126 126 126 126 126 126 126 127 128 127 128 127 128 129 129 129 129 129 130 130 130 130 130 130 130 131 131 131 131 131 131 131 131 131 131 131 131 131 131 131 132 133 133 133 133 133 133 133 133 133 133 133 133 133 133 134 134 134 134 134 134 134 134 134 134 134 134 134 134 134 135 135 135 135 135 136 137 137 137 137 137 137 137 138 138 138 138 138 138 | | | - | _ | | Н | \vdash | | _ | \vdash | - | - | | \vdash | | - | - | - | Н | \perp | 4 | <u> </u> | | | 4 | 4 | _ | Ш | \dashv | - | _ |
| 25 125 125 126 126 126 127 128 127 128 127 128 127 128 127 128 127 128 129 129 129 129 129 130 130 131 131 131 131 131 131 132 132 132 132 133 | <u> </u> | | | _ | | - | - | | _ | - | _ | - | | $\left - \right $ | - | 4 | - | 4 | - | | 4 | <u> </u> | | | 4 | 4 | <u> </u> | Ш | - | 4 | _ |
| 26 126 126 126 127 128 127 128 127 128 128 128 129 129 129 129 129 129 130 130 131 131 131 131 131 131 132 133 13 | | | - | | | _ | _ | _ | | \dashv | | <u> </u> | | - | - | - | - - | | - | | 4 | | 124 | _ | _ | +- | - | | \dashv | | |
| 27 1 1 1 1 1 1 128 128 128 129 128 129 129 129 129 129 129 130 130 130 130 131 131 131 131 131 131 131 131 131 131 132 133 | | | <u> </u> | | | | _ | _ | | \vdash | | - | | \square | - | + | + | - | ₩ | \vdash | ┨ | | | _ | - | _ | <u> </u> | Ш | \dashv | | |
| 28 78 128 129 129 129 129 129 129 129 130 130 131 131 131 131 131 131 131 132 133 | <u> </u> | | _ | _ | | Н | | - | ļ | \vdash | - | | | | | + | + | + | \vdash | | ┨ | _ | 126 | | | +- | <u> </u> | - | - | - | |
| 29 129 30 130 31 131 32 132 33 131 34 132 35 133 36 135 37 137 38 88 39 88 40 90 41 91 42 93 43 94 44 95 46 96 47 97 48 99 49 149 | - | | \vdash | _ | | Н | | - | - | \vdash | - | <u> </u> | | $\left \cdot \right $ | - | + | | ┵ | \vdash | \vdash | - | | | - | + | +- | - | | | - | |
| 30 | - | | - | | | Н | | - | - | \dashv | - | | | - | - | + | + | + | H | \vdash | - | \vdash | | - | - | +- | | Н | \dashv | \dashv | - |
| 31 32 33 34 35 35 36 37 37 37 37 38 39 <td< td=""><td> </td><td></td><td>_</td><td>_</td><td>\vdash</td><td>\vdash</td><td>Н</td><td>┝</td><td>-</td><td></td><td>\dashv</td><td><u> </u></td><td></td><td>\vdash</td><td>-</td><td>\dashv</td><td>╁</td><td>+</td><td>\vdash</td><td></td><td>┨</td><td></td><td></td><td></td><td>+-</td><td>+-</td><td>-</td><td>$\vdash \vdash$</td><td>\dashv</td><td>\dashv</td><td>-</td></td<> | | | _ | _ | \vdash | \vdash | Н | ┝ | - | | \dashv | <u> </u> | | \vdash | - | \dashv | ╁ | + | \vdash | | ┨ | | | | +- | +- | - | $\vdash \vdash$ | \dashv | \dashv | - |
| 32 | - | | _ | _ | | | Н | ⊢ | \vdash | \dashv | \dashv | \vdash | | - | \dashv | \dashv | + | +- | Н | _ | ┨ | - | | \dashv | | + | - | Н | \dashv | \dashv | \dashv |
| 33 34 35 36 37 38 37 38 39 <td< td=""><td><u> </u></td><td></td><td>_</td><td>_</td><td></td><td>-</td><td>Н</td><td>H</td><td>H</td><td>\dashv</td><td>-</td><td>-</td><td></td><td>\vdash</td><td>\dashv</td><td>+</td><td>+</td><td>+</td><td>╁╌┤</td><td>-</td><td>┨</td><td>-</td><td></td><td>\dashv</td><td>+</td><td>╁</td><td>ļ</td><td>Н</td><td>\dashv</td><td>\dashv</td><td>\dashv</td></td<> | <u> </u> | | _ | _ | | - | Н | H | H | \dashv | - | - | | \vdash | \dashv | + | + | + | ╁╌┤ | - | ┨ | - | | \dashv | + | ╁ | ļ | Н | \dashv | \dashv | \dashv |
| 34 35 36 35 36 37 38 37 38 37 38 39 <td< td=""><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>\dashv</td><td>\dashv</td><td>\vdash</td><td></td><td> </td><td>\dashv</td><td>-+</td><td>+</td><td>+</td><td>\vdash</td><td></td><td>┨</td><td></td><td></td><td>-</td><td></td><td>╁</td><td></td><td>Н</td><td>-</td><td>\dashv</td><td></td></td<> | | | | | | | | - | | \dashv | \dashv | \vdash | | | \dashv | -+ | + | + | \vdash | | ┨ | | | - | | ╁ | | Н | - | \dashv | |
| 35 36 37 38 37 38 37 38 39 38 39 <td< td=""><td><u> </u></td><td></td><td>-</td><td>\vdash</td><td></td><td></td><td>H</td><td> </td><td></td><td>\dashv</td><td>\dashv</td><td>\vdash</td><td></td><td>-</td><td>-</td><td>+</td><td>╅</td><td>+</td><td>Н</td><td></td><td>┨</td><td></td><td></td><td></td><td>+</td><td>╫</td><td></td><td></td><td>-</td><td>\dashv</td><td>\dashv</td></td<> | <u> </u> | | - | \vdash | | | H | | | \dashv | \dashv | \vdash | | - | - | + | ╅ | + | Н | | ┨ | | | | + | ╫ | | | - | \dashv | \dashv |
| 36 37 38 37 38 39 38 39 <td< td=""><td></td><td></td><td>_</td><td></td><td></td><td></td><td>\vdash</td><td></td><td>\vdash</td><td></td><td>\dashv</td><td>—</td><td></td><td>\vdash</td><td>\dashv</td><td>\dashv</td><td>+</td><td>+</td><td>Н</td><td></td><td>1</td><td></td><td></td><td>-</td><td></td><td>+</td><td>\vdash</td><td>\vdash</td><td>-+</td><td>\dashv</td><td>ᅱ</td></td<> | | | _ | | | | \vdash | | \vdash | | \dashv | — | | \vdash | \dashv | \dashv | + | + | Н | | 1 | | | - | | + | \vdash | \vdash | -+ | \dashv | ᅱ |
| 37 38 39 38 39 38 39 <td< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td>Н</td><td></td><td></td><td></td><td>ᅱ</td><td></td><td></td><td>Н</td><td>-</td><td>$^{+}$</td><td>\dashv</td><td>+-</td><td>\vdash</td><td>+</td><td>1</td><td>-</td><td>136</td><td>-</td><td>+</td><td>+</td><td>\vdash</td><td>Н</td><td>\dashv</td><td>\dashv</td><td>\dashv</td></td<> | | | | - | | | Н | | | | ᅱ | | | Н | - | $^{+}$ | \dashv | +- | \vdash | + | 1 | - | 136 | - | + | + | \vdash | Н | \dashv | \dashv | \dashv |
| 38 39 38 39 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Н</td><td></td><td></td><td></td><td>ᅱ</td><td> </td><td></td><td>-</td><td>-</td><td>\dashv</td><td>+</td><td>+</td><td>Н</td><td>-</td><td>1</td><td>-</td><td></td><td>\dashv</td><td>+</td><td>+</td><td>\vdash</td><td>H</td><td>\dashv</td><td>\dashv</td><td>-</td></td<> | | | | | | | Н | | | | ᅱ | | | - | - | \dashv | + | + | Н | - | 1 | - | | \dashv | + | + | \vdash | H | \dashv | \dashv | - |
| 39 89 139 140 40 90 140 141 41 91 141 141 92 142 142 143 93 143 144 144 45 95 145 145 46 96 146 147 48 99 148 148 49 99 149 149 | | | \vdash | | | \exists | Н | | - | | ┪ | - | | \Box | 7 | \dashv | + | + | | | 1 | | | + | _ | +- | ┢ | \vdash | \dashv | \dashv | ᅥ |
| 40 90 140 141 41 91 141 141 42 92 142 142 43 93 143 143 44 94 144 144 45 95 145 146 46 97 146 147 48 99 148 148 49 99 149 149 | | | | | T | | П | | | | \neg | | | | 寸 | 寸 | _ | + | Н | | 1 | | | - | + | + | \vdash | \vdash | \dashv | 十 | \neg |
| 41 91 141 142 142 142 143 143 143 143 143 143 143 144 144 144 144 144 144 144 144 145 145 145 146 146 146 147 147 147 148 148 148 149 | | | | | | | Н | | | $\neg \dagger$ | \neg | | | Ħ | 寸 | \top | 十 | + | Н | _ | 1 | - | | \dashv | + | + | \vdash | | \dashv | \dashv | \neg |
| 42 92 142 143 43 93 143 144 44 94 144 144 95 145 145 146 96 146 147 147 48 99 148 148 49 99 149 149 | | | | | \neg | | П | _ | Н | | ┪ | - | 91 | \vdash | \neg | 十 | 十 | + | Н | _ | 1 | | 141 | | \top | + | | Н | 寸 | 十 | \dashv |
| 43 93 143 144 44 94 144 144 45 95 145 145 46 96 146 147 48 97 147 148 49 99 149 149 | | | | | | | П | - | П | \neg | _ | | | \Box | \neg | 7 | + | + | Н | _ | 1 | | | | \dashv | 1- | Т | \vdash | 十 | \dashv | \dashv |
| 44 94 45 95 46 96 47 97 48 98 49 99 | | 43 | | | \neg | | П | | П | \Box | \neg | | | | _ | \top | \top | \top | П | | 1 | | | \dashv | \top | \top | | \vdash | 十 | 十 | \dashv |
| 45 95 46 96 47 97 48 98 49 99 | | 44 | | | | \Box | П | | П | \Box | | | 94 | | _ | \dashv | \top | 1- | П | | 1 | | | - | \top | \top | | H | 十 | \dashv | \exists |
| 46 96 47 146 48 97 98 148 49 149 | | 45 | | | \neg | | П | | П | | \neg | | 95 | \Box | | \neg | \top | + | | _ | 1 | | 145 | \dashv | \top | \top | П | \Box | 十 | \dashv | ᅥ |
| 47 97 48 147 98 148 149 149 | | 46 | | | | | | | П | | ヿ | | 96 | | | 7 | \top | \top | П | | 1 | | 146 | | | \top | П | - | \neg | \neg | |
| 48 98 148 149 149 149 149 149 149 149 149 149 149 | | 47 | | | | | | | П | | \neg | | 97 | | \neg | \dashv | \top | 1 | П | | 1 | | | \neg | - - | † | П | | ヿ | 寸 | ㄱ |
| 49 99 149 149 | | 48 | | | | | | | | | | | 98 | | | \neg | \top | 1 | П | | 1 | | | 十 | | T | — | П | \dashv | \dashv | \dashv |
| | | 49 | | | | | | | | | | . 🗀 | 99 | | | \top | \top | | \sqcap | | 1 | | 149 | | | 1 | | | 寸 | \dashv | ᅦ |
| | | 50 | | | | | | | | | | | | | | | | | | |] | | 150 | | | | | \Box | \exists | \dashv | \exists |